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PATENT

Applicant: **Marcus A. Horwitz et. al.**

Serial No.: **08/786,533**

Filed: **January 21, 1997**

Title: **ABUNDANT EXTRACELLULAR  
PRODUCTS & METHODS FOR  
THEIR PRODUCTION & USE**

Examiner: **A. Caputa**

Group Art Unit: **1645**

Atty Docket No.: **510030-143**

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37 C.F.R. § 1.8(a) 37 C.F.R. § 1.10

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*Trudi Thompson*  
Trudi Thompson

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

### RESPONSE TO OFFICE ACTION

Commissioner of Patents  
Washington, DC 20231

Dear Sir:

In response to the Office Action dated December 18, 2001, applicants respond as follows.

At the outset the Applicants would like to acknowledge the thorough and thoughtful analysis the Examiner has given to the immediate case. However, the Applicants respectfully traverse her arguments based on the following claim amendments and arguments.

In the claims:

Please amend the claims as follows:

1. A vaccinating agent for use in promoting an effective immune response, in a mammalian host, against an infectious pathogen from the genus Mycobacterium, said vaccinating agent comprising:

at least a portion of at least one majorly abundant extracellular product selected from the group consisting of M. tuberculosis 110 KD protein, 80 KD protein, 71 KD protein, 58 KD protein, 45 KD protein, 30 KD protein, 24 KD protein, 23.5 KD

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